

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF SMAD2 p-S465/467 kit - Ctrl lysate 64SMAD2S5TDA

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## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

**Designation / Commercial name : HTRF SMAD2 p-S465/467 kit - Ctrl lysate 64SMAD2S5TDA**

CAS No.: Index No: EC No: REACH No:

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only ;

Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses. ;

### 1.3 Details of the supplier of the safety data sheet:

#### Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA -

Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone : +33 4 66 79 67 05 - Fax : +33 4 66 79 67 50

E-Mail (competent person):  codolet.sds@revvity.com

### 1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1)

Other countries - Phone: +33 (0) 466 796 737 (2)

<https://www.cisbio.com>

<https://www.revvity.com>

(1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5

(2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

| Classification according to Regulation (EC) No 1272/2008 [CLP]  | Category code     | Hazard statement | Precautionary statement                           |
|---|-------------------|------------------|---|
| Hazardous to the aquatic environment - Aquatic Chronic 3 - H412 | Aquatic Chronic 3 | H412             | P273<br>P501                                      |
| Serious eye damage/eye irritation - Eye Irrit. 2 - H319         | Eye Irrit. 2      | H319             | P264<br>P280<br>P305 + P351 + P338<br>P337 + P313 |

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

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Substances contained in this product:

Hazard pictograms

GHS07-exclam



Signal word:

Warning

Hazard and precautionary statements:

| Code               | Hazard statments   |
|--------------------|--|
| H319               | Causes serious eye irritation  |
| H412               | Harmful to aquatic life with long lasting effects  |
| P264               | Wash ... thoroughly after handling.  |
| P273               | Avoid release to the environment.  |
| P280               | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.  |
| P501               | Dispose of contents/container to ...   |

### 2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) published by the European Chemicals Agency (ECHA) under article 57 of REACH at levels of 0.1% or higher. This substance or mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher ;

Adverse human health effects and symptoms:

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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**
**3.2 Mixtures**
Hazardous ingredients:

| Substance name   | CAS n°      | Index n°     | EC n°     | Classification according Regulation (EC) No. 1272 [CLP]  | Concentration (%) | SCL | M-factor |
|--|-------------|--------------|-----------|--|-------------------|-----|----------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -[4-(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy- | 9002-93-1   |              |           | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Hazardous to the aquatic environment - Aquatic Acute 1 - H400<br>Hazardous to the aquatic environment - Aquatic Chronic 1 - H410<br>Serious eye damage/eye irritation - Eye Dam. 1 - H318<br>Skin corrosion/irritation - Skin Irrit. 2 - H315 |                   |     |          |
| Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched                    | 127087-87-0 |              | 500-315-8 | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Acute toxicity - Acute Tox. 4 - H332 - Inhalation<br>Hazardous to the aquatic environment - Aquatic Chronic 2 - H411<br>Serious eye damage/eye irritation - Eye Dam. 1 - H318   |                   |     | 1        |
| sodium chloride  | 7647-14-5   |              | 231-598-3 |  |                   |     |          |
| 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid   | 7365-45-9   |              | 230-907-9 |  |                   |     |          |
| 2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride                                      | 1185-53-1   |              | 214-684-5 |  |                   |     |          |
| disodium dihydrogenpyrophosphate   | 7758-16-9   |              | 231-835-0 | Serious eye damage/eye irritation - Eye Irrit. 2 - H319  |                   |     |          |
| Sodium pyrophosphate tetrabasic decahydrate  | 13472-36-1  |              |           | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Serious eye damage/eye irritation - Eye Dam. 1 - H318   |                   |     |          |
| ethanol  | 64-17-5     | 603-002-00-5 | 200-578-6 | Flammable liquid - Flam. Liq. 2 - H225   |                   |     |          |
| trisodium tetraoxovanadate   | 13721-39-6  |              | 237-287-9 | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Acute toxicity - Acute Tox. 4 - H312 - Dermal<br>Acute toxicity - Acute Tox. 4 - H332 - Inhalation<br>Serious eye damage/eye irritation - Eye Irrit. 2 - H319<br>Skin corrosion/irritation - Skin Irrit. 2 - H315                             |                   |     |          |

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|  |             |  |           |   |  |  |   |
|--|-------------|--|-----------|---|--|--|---|
| sodium 3- $\alpha$ ,12- $\alpha$ -dihydroxy-5- $\beta$ -cholan-24-oate   | 302-95-4    |  | 206-132-7 | Acute toxicity - Acute Tox. 4 - H302 - Oral   |  |  |   |
| Ethylenediamine-N,N,N1,N1-tetraacetic acid   | 6381-92-6   |  |           | Acute toxicity - Acute Tox. 4 - H332 - Inhalation<br>Specific target organ toxicity - repeated exposure - STOT RE 2 - H373  |  |  |   |
| ethylenebis(oxyethylenenitrilo)tetra(acetic acid)  | 67-42-5     |  | 200-651-2 |   |  |  |   |
| $\beta$ -Glycerophosphate  | 13408-09-8  |  |           |   |  |  |   |
| 2-{2-[4-(2,4,5-trimethylhexan-3-yl)phenoxy]polyethoxy}ethanol, 2-{2-[4-(2,4,5-trimethylhexan-3-yl)phenoxy]polyethoxy}ethanol | 68412-54-4  |  | 500-209-1 | Hazardous to the aquatic environment - Aquatic Acute 1 - H400<br>Hazardous to the aquatic environment - Aquatic Chronic 1 - H410  |  |  | 1 |
| CBB Substance  | NOCAS4      |  |           | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Acute toxicity - Acute Tox. 4 - H332 - Inhalation<br>Hazardous to the aquatic environment - Aquatic Chronic 3 - H412<br>Serious eye damage/eye irritation - Eye Dam. 1 - H318<br>Skin corrosion/irritation - Skin Irrit. 2 - H315<br>Specific target organ toxicity - single exposure - STOT SE 3 - H335 |  |  |   |
| $\alpha$ -toluenesulphonyl fluoride  | 329-98-6    |  | 206-350-2 | Acute toxicity - Acute Tox. 3 - H301 - Oral<br>Serious eye damage/eye irritation - Eye Dam. 1 - H318<br>Skin corrosion/irritation - Skin Corr. 1B - H314  |  |  |   |
| Leupeptin  | 103476-89-7 |  |           | Acute toxicity - Acute Tox. 4 - H302 - Oral<br>Acute toxicity - Acute Tox. 4 - H312 - Dermal<br>Acute toxicity - Acute Tox. 4 - H332 - Inhalation   |  |  |   |

**Additional information:**

Full text of H- and EUH-phrases: see SECTION 16.

**SECTION 4 : FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General information:** Do not leave affected person unattended. ;

**Following inhalation:** In case of respiratory tract irritation, consult a physician. ;

**Following skin contact:** After contact with skin, wash immediately with water ;

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**Following eye contact:**After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. ;

**Following ingestion:**Do NOT induce vomiting. ;

**Self-protection of the first aider:**

#### **4.2 Most important symptoms and effects, both acute and delayed**

Symptoms:No known symptoms to date. ;

Effects:

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Notes for the doctor:

### **SECTION 5 : FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media:**

**Suitable extinguishing media:**This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

#### **5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products:/

#### **5.3 Advice for fire-fighters**

Wear Protective clothing. ;

### **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Emergency procedures: Provide adequate ventilation. ;

#### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. ;

#### **6.3 Methods and material for containment and cleaning up**

For cleaning up:Suitable material for taking up: Absorbing material, organic ;

Other information:

#### **6.4 Reference to other sections**

Additional information:

### **SECTION 7 : HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

Protective measures:

Advice on safe handling:Avoid contact with skin, eyes and clothes. ;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled. ;

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Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

**7.2 Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions:

Requirements for storage rooms and vessels:Keep container tightly closed. ;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

**7.3 Specific end uses:**

Recommendations on specific end uses: Observe technical data sheet. ;

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

| Source :               |           | Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |             |           |             |           |
|------------------------|-----------|---|-------------|-----------|-------------|-----------|
| Substance              | EC-No.    | CAS-No  | VLE (mg/m3) | VLE (ppm) | VME (mg/m3) | VME (ppm) |
| 13472-36-1             |           | 13472-36-1  |             |           | 5           |           |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6  |             |           |             |           |
| 6381-92-6              |           | 6381-92-6   |             |           |             |           |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5   | 9500        | 5000      | 1900        | 1000      |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4  |             |           |             |           |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9   |             |           |             |           |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5   |             |           |             |           |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9   |             |           |             |           |

- Spain

| Source :   |        | Limites de Exposicion Profesional para Agentes Quimicos en Espana<br>Instituto Nacional de Seguridad e Higiene en el Trabajo<br>June 2015 |                |              |                |              |
|------------|--------|---|----------------|--------------|----------------|--------------|
| Substance  | EC-No. | CAS-No  | VLA-EC (mg/m3) | VLA-EC (ppm) | VLA-ED (mg/m3) | VLA-ED (ppm) |
| 13472-36-1 |        | 13472-36-1  |                |              |                |              |

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|                        |           |            |      |   |  |
|------------------------|-----------|------------|------|---|--|
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 |      |   |  |
| 6381-92-6              |           | 6381-92-6  |      |   |  |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5    | 1,91 | 1 |  |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4 |      |   |  |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |      |   |  |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5  |      |   |  |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9  |      |   |  |

- Germany

| Source :               |           | TRGS 900, June 2015, BAuA |             |           |  |
|------------------------|-----------|---------------------------|-------------|-----------|--|
| Substance              | EC-No.    | CAS-No                    | AGW (mg/m3) | AGW (ppm) |  |
| 13472-36-1             |           | 13472-36-1                |             |           |  |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6                |             |           |  |
| 6381-92-6              |           | 6381-92-6                 |             |           |  |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5                   | 960         | 500       |  |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4                |             |           |  |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9                 |             |           |  |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5                 |             |           |  |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9                 |             |           |  |

- Italia
- Greece
- UK
- OSHA (USA)

|          |   |
|----------|---|
| Source : | Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 |
|----------|---|

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| Substance              | EC-No.    | CAS-No     | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm) | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3) | OSHA Permissible Exposure Limit (PEL) STEL (ppm) | OSHA Permissible Exposure Limit (PEL) STEL (mg/m3) |
|------------------------|-----------|------------|--|--|--|--|
| 13472-36-1             |           | 13472-36-1 |  |  |  |  |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 |  |  |  | 0,05   |
| 6381-92-6              |           | 6381-92-6  |  |  |  |  |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5    | 1000   | 1900   |  |  |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4 |  |  |  |  |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |  |  |  |  |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5  |  |  |  |  |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9  |  |  |  |  |

### 8.1.2 Biological limit values (Germany):

| Substance              | EC-No.    | CAS-No     | BLV (mg/m3) | BLV (ppm) |
|------------------------|-----------|------------|-------------|-----------|
| 13472-36-1             |           | 13472-36-1 |             |           |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 |             |           |
| 6381-92-6              |           | 6381-92-6  |             |           |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5    |             |           |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4 |             |           |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |             |           |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5  |             |           |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9  |             |           |

### 8.1.3 Exposure limits at intended use (Germany):

| Substance              | EC-No.    | CAS-No     | BGW (mg/m3) | BGW (ppm) |
|------------------------|-----------|------------|-------------|-----------|
| 13472-36-1             |           | 13472-36-1 |             |           |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6 |             |           |
| 6381-92-6              |           | 6381-92-6  |             |           |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5    |             |           |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4 |             |           |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9  |             |           |



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|-----------------------|-----------|-----------|--|--|
| 7647-14-5 / 231-598-3 | 231-598-3 | 7647-14-5 |  |  |
| 7758-16-9 / 231-835-0 | 231-835-0 | 7758-16-9 |  |  |

8.1.4 DNEL/PNEC-values:

- DNEL worker

| Source :               |           | GESTIS – substance database |   |   |  |   |  |   |  |
|------------------------|-----------|-----------------------------|---|---|--|---|--|---|--|
| Substance              | EC-No.    | CAS-No                      | Acute – dermal, local effects (mg/kg/day) | Long-term – dermal, local effects (mg/kg/day) | Long-term – dermal, systemic effects (mg/kg/day) | Acute – inhalation, local effects (mg/m3) | Acute – inhalation, systemic effects (mg/m3) | Long-term – inhalation, local effects (mg/m3) | Long-term – inhalation, systemic effects (mg/m3) |
| 13472-36-1             |           | 13472-36-1                  |   |   |  |   | 2.79-2.79                                    |   |  |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6                  |   |   |  |   |  |   |  |
| 6381-92-6              |           | 6381-92-6                   |   |   |  | 1.5-1.5                                   |  |   |  |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5                     |   |   |  |   | 950-950                                      |   |  |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4                  |   |   |  |   | 4.7-4.7                                      |   |  |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9                   |   |   |  |   | 23.5-23.5                                    |   |  |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5                   |   |   |  |   | 2068.62-2068.62                              |   |  |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9                   |   |   |  |   | 2.79-2.79                                    |   |  |

- DNEL consumer

| Source :               |           | GESTIS – substance database |   |   |  |   |  |   |  |
|------------------------|-----------|-----------------------------|---|---|--|---|--|---|--|
| Substance              | EC-No.    | CAS-No                      | Acute – dermal, local effects (mg/kg/day) | Long-term – dermal, local effects (mg/kg/day) | Long-term – dermal, systemic effects (mg/kg/day) | Acute – inhalation, local effects (mg/m3) | Acute – inhalation, systemic effects (mg/m3) | Long-term – inhalation, local effects (mg/m3) | Long-term – inhalation, systemic effects (mg/m3) |
| 13472-36-1             |           | 13472-36-1                  |   |   |  |   |  |   |  |
| 13721-39-6 / 237-287-9 | 237-287-9 | 13721-39-6                  |   |   |  |   |  |   |  |
| 6381-92-6              |           | 6381-92-6                   |   |   |  |   |  |   |  |
| 64-17-5 / 200-578-6    | 200-578-6 | 64-17-5                     |   |   |  |   |  |   |  |
| 68412-54-4 / 500-209-1 | 500-209-1 | 68412-54-4                  |   |   |  |   |  |   |  |
| 7365-45-9 / 230-907-9  | 230-907-9 | 7365-45-9                   |   |   |  |   |  |   |  |
| 7647-14-5 / 231-598-3  | 231-598-3 | 7647-14-5                   |   |   |  |   |  |   |  |
| 7758-16-9 / 231-835-0  | 231-835-0 | 7758-16-9                   |   |   |  |   |  |   |  |



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|--------------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| 7647-14-5 /<br>231-598-3 | 231-598-3 | 7647-14-5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7758-16-9 /<br>231-835-0 | 231-835-0 | 7758-16-9 |  |  |  |  |  |  |  |  |  |  |  |  |

PNEC remark:

Control parameters remark:

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls:

8.2.2 Personal protective equipment:

**Eye / Face protection:** Safety glasses with side-shields ;

**Skin protection:**Gloves ;

**Respiratory protection:**Ensure adequate ventilation ;

**Thermal hazards:**

8.2.3 Environmental exposure controls:

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                       |             |
|-----------------------|-------------|
| Physical state        | Liquid ;    |
| Colour                | Colorless ; |
| Odour                 |             |
| Odour threshold (ppm) |             |

|   | Value                                 | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---------------------------------------|-----------------------|--------|------------------|----------------|--------|
| pH  | 7                                     |                       |        |                  |                |        |
| Melting point (°C)                                      |                                       |                       |        |                  |                |        |
| Freezing point (°C)                                     |                                       |                       |        |                  |                |        |
| Initial boiling point/boiling range (°C)                |                                       |                       |        |                  |                |        |
| Flash point (°C)  |                                       |                       |        |                  |                |        |
| Evaporation rate (kg/m <sup>2</sup> /h)                 |                                       |                       |        |                  |                |        |
| Flammability (type : ) (%)                              |                                       |                       |        |                  |                |        |
| Upper/lower flammability or explosive limits            | Upper explosive limit (%)             |                       |        |                  |                |        |
|   | Lower explosive limit (%)             |                       |        |                  |                |        |
| Vapour pressure (kPa)                                   |                                       |                       |        |                  |                |        |
| Vapour density (g/cm <sup>3</sup> )                     |                                       |                       |        |                  |                |        |
| Densities   | Density (g/cm <sup>3</sup> )          |                       |        |                  |                |        |
|   | Relative density (g/cm <sup>3</sup> ) |                       |        |                  |                |        |
|   | Bulk density (g/cm <sup>3</sup> )     |                       |        |                  |                |        |
|   | Critical density (g/cm <sup>3</sup> ) |                       |        |                  |                |        |
| Solubility (Type : ) (g/L)                              |                                       |                       |        |                  |                |        |
| Partition coefficient (log Pow) n-octanol/water at pH : |                                       |                       |        |                  |                |        |
| Auto-ignition temperature (°C)                          |                                       |                       |        |                  |                |        |

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|                                |   |  |  |  |  |  |
|--------------------------------|---|--|--|--|--|--|
| Decomposition temperature (°C) |   |  |  |  |  |  |
| Decomposition energy : kJ      |   |  |  |  |  |  |
| Viscosity                      | Viscosity, dynamic (poiseuille)           |  |  |  |  |  |
|                                | Viscosity, cinematic (cm <sup>2</sup> /s) |  |  |  |  |  |
| Oxidising properties           |   |  |  |  |  |  |
| Explosive properties           |   |  |  |  |  |  |

**9.2 Other information:**

No other relevant data available

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1 Reactivity** This material is considered to be non-reactive under normal use conditions. ;

**10.2 Chemical stability**

**10.3 Possibility of hazardous reactions**

**10.4 Conditions to avoid:**

**10.5 Incompatible materials:**

**10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses. ;

**SECTION 11 : TOXICOLOGICAL INFORMATION**

Toxicokinetics, metabolism and distribution

**11.1 Information on toxicological effects**

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

| Substance name          | LD50 (mg/kg) | Species | Method | Symptoms / delayed effects | Remark        |
|-------------------------|--------------|---------|--------|----------------------------|---------------|
| 127087-87-0 / 500-315-8 |              |         |        |                            | Data lacking. |
| 9002-93-1               | 1800-1800    | Rat     |        |                            |               |

Acute dermal toxicity:

Acute inhalative toxicity:

| Substance name          | C(E)L50 (mg/L) | Exposure time | Species | Method | Remark |
|-------------------------|----------------|---------------|---------|--------|--------|
| 127087-87-0 / 500-315-8 |                |               |         |        |        |

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Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

| Substance name | Species | Method | Exposure time | Result/evaluation | Score | Remark |
|----------------|---------|--------|---------------|-------------------|-------|--------|
| 9002-93-1      |         |        |               |                   |       |        |

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

| Substance name          | Species | Method | Exposure time | Result/evaluation | Score | Remark |
|-------------------------|---------|--------|---------------|-------------------|-------|--------|
| 127087-87-0 / 500-315-8 |         |        |               |                   |       |        |
| 9002-93-1               | Rabbit  |        |               | Eye irritation    |       |        |

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Germ cell mutagenicity:

Animal data:

Assessment / Classification:

- Carcinogenicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

- Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:



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|           |  |           |     |    |                                      |  |  |  |  |
|-----------|--|-----------|-----|----|--------------------------------------|--|--|--|--|
| 9002-93-1 |  | 9002-93-1 | 8,9 | 96 | Pimephales promelas (fathead minnow) |  |  |  |  |
|-----------|--|-----------|-----|----|--------------------------------------|--|--|--|--|

Chronic (long-term) fish toxicity

| Source :                | Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |             |             |               |         |        |        |                |  |
|-------------------------|---|-------------|-------------|---------------|---------|--------|--------|----------------|--|
| Substance               | EC-No.  | CAS-No      | NOEC (mg/L) | Test duration | Species | Method | Remark | General Remark |  |
| 127087-87-0 / 500-315-8 | 500-315-8   | 127087-87-0 |             |               |         |        |        |                |  |
| 9002-93-1               |   | 9002-93-1   |             |               |         |        |        |                |  |

Acute (short-term) toxicity to crustacea

| Source :                | Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |             |             |               |         |                   |        |        |                |
|-------------------------|---|-------------|-------------|---------------|---------|-------------------|--------|--------|----------------|
| Substance               | EC-No.  | CAS-No      | EC50 (mg/L) | Test duration | Species | Result/Evaluation | Method | Remark | General Remark |
| 127087-87-0 / 500-315-8 | 500-315-8   | 127087-87-0 |             |               |         |                   |        |        |                |
| 9002-93-1               |   | 9002-93-1   | 26          | 48            |         |                   |        |        |                |

Chronic (long-term) toxicity to crustacea

| Source :                | Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |             |             |               |         |        |        |                |  |
|-------------------------|---|-------------|-------------|---------------|---------|--------|--------|----------------|--|
| Substance               | EC-No.  | CAS-No      | NOEC (mg/L) | Test duration | Species | Method | Remark | General Remark |  |
| 127087-87-0 / 500-315-8 | 500-315-8   | 127087-87-0 |             |               |         |        |        |                |  |
| 9002-93-1               |   | 9002-93-1   |             |               |         |        |        |                |  |

Acute (short-term) toxicity to algae and cyanobacteria

| Source :                | Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |             |             |               |         |                   |        |        |                |
|-------------------------|---|-------------|-------------|---------------|---------|-------------------|--------|--------|----------------|
| Substance               | EC-No.  | CAS-No      | EC50 (mg/L) | Test duration | Species | Result/Evaluation | Method | Remark | General Remark |
| 127087-87-0 / 500-315-8 | 500-315-8   | 127087-87-0 |             |               |         |                   |        |        |                |
| 9002-93-1               |   | 9002-93-1   |             |               |         |                   |        |        |                |

Toxicity to microorganisms and other aquatic plants / organisms

| Source :                | Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |             |             |         |        |        |                |  |  |
|-------------------------|---|-------------|-------------|---------|--------|--------|----------------|--|--|
| Substance               | EC-No.  | CAS-No      | EC50 (mg/L) | Species | Method | Remark | General Remark |  |  |
| 127087-87-0 / 500-315-8 | 500-315-8   | 127087-87-0 |             |         |        |        |                |  |  |
| 9002-93-1               |   | 9002-93-1   |             |         |        |        |                |  |  |

Assessment / Classification:

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### 12.2 Persistence and degradability

#### Biodegradation:

| Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 |           |             |          |                          |                      |        |  |
|--|-----------|-------------|----------|--------------------------|----------------------|--------|--|
| Substance  | EC-No.    | CAS-No      | Inoculum | Biodegradation parameter | Degradation rate (%) | Method | Remark   |
| 127087-87-0 / 500-315-8  | 500-315-8 | 127087-87-0 |          |                          |                      |        |  |
| 9002-93-1  |           | 9002-93-1   |          | BOD (% of COD).          | 36-36                |        | In accordance with the required stability the product is poorly biodegradable. |

#### Abiotic Degradation:

| Source :                |           |             |                               |                    |                  |    |        |        |
|-------------------------|-----------|-------------|-------------------------------|--------------------|------------------|----|--------|--------|
| Substance               | EC-No.    | CAS-No      | Abiotic degradation test type | Half-life time (j) | Temperature (°C) | pH | Method | Remark |
| 127087-87-0 / 500-315-8 | 500-315-8 | 127087-87-0 |                               |                    |                  |    |        |        |
| 9002-93-1               |           | 9002-93-1   |                               |                    |                  |    |        |        |

#### Assessment / Classification:

### 12.3 Bioaccumulative potential

#### Bioconcentration factor (BCF):

| Source :                |           |             |         |        |        |        |
|-------------------------|-----------|-------------|---------|--------|--------|--------|
| Substance               | EC-No.    | CAS-No      | Species | Result | Method | Remark |
| 127087-87-0 / 500-315-8 | 500-315-8 | 127087-87-0 |         |        |        |        |
| 9002-93-1               |           | 9002-93-1   |         |        |        |        |

### 12.4 Mobility in soil

| Source :                |           |             |              |                |                                  |         |                            |                                   |                                 |        |        |
|-------------------------|-----------|-------------|--------------|----------------|----------------------------------|---------|----------------------------|-----------------------------------|---------------------------------|--------|--------|
| Substance               | EC n°     | CAS n°      | Distribution | Transport type | Henry's law constant (Pa.m3/mol) | Log KOC | Half-life time in soil (j) | Half-life time in fresh water (j) | Half-life time in sea water (j) | Method | Remark |
| 127087-87-0 / 500-315-8 | 500-315-8 | 127087-87-0 |              |                |                                  |         |                            |                                   |                                 |        |        |
| 9002-93-1               |           | 9002-93-1   |              |                |                                  |         |                            |                                   |                                 |        |        |

### 12.5 Results of PBT and vPvB assessment



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**12.6 Other adverse effects:**

Additional ecotoxicological information:

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Waste treatment options:Dispose of waste according to applicable legislation. ;

**SECTION 14 : TRANSPORT INFORMATION**

ADR/RID/AND/IMDG/IATA

|                            |  |
|----------------------------|--|
| UN No.                     |  |
| UN Proper shipping name    |  |
| Transport hazard class(es) |  |
| Hazard label(s)            |  |
| Packing group              |  |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Land transport (ADR/RID)

|  |   |
|--|---|
| Classification code ADR:   | Special Provisions for ADR/RID:               |
| Limited quantities for ADR/RID:                                      | Excepted Quantities for ADR/RID:              |
| Packing Instructions for ADR/RID:                                    | Special packing provisions for ADR/RID:       |
| Mixed packing provisions:  |   |
| Portable tanks and bulk containers Instructions:                     |   |
| Portable tanks and bulk containers Special Provisions:               |   |
| ADR Tank Code:   | ADR Tank special provisions:                  |
| Vehicle for tank carriage:   |   |
| Special provisions for carriage Packages:                            |   |
| Special provisions for carriage Bulk:                                |   |
| Special provisions for carriage for loading, unloading and handling: |   |
| Special Provisions for carriage Operation:                           |   |
| Hazard identification No:  | Transport category (Tunnel restriction code): |

Sea transport (IMDG)

|                                |                                   |
|--------------------------------|-----------------------------------|
| Marine Pollutant:              | Subsidiary risk(s) for IMDG:      |
| Packing provisions for IMDG:   | Limited quantities for IMDG:      |
| Packing instructions for IMDG: | IBC Instructions:                 |
| IBC Provisions:                | IMO tank instructions:            |
| UN tank instructions:          | Tanks and bulk Provisions:        |
| EmS :                          | Stowage and segregation for IMDG: |
| Properties and observations:   |                                   |

Inland waterway transport (ADN)

|  |                                 |
|--|---------------------------------|
| Classification Code ADN:                     | Special Provisions ADN:         |
| Limited quantities ADN:                      | Excepted quantities ADN:        |
| Carriage permitted:                          | Equipment required:             |
| Provisions concerning loading and unloading: | Provisions concerning carriage: |
| Number of blue cones/lights:                 | Remark:                         |

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#### Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:  
 Passenger and Cargo Aircraft Limited Quantities Packing Instructions:  
 Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :  
 Passenger and Cargo Aircraft Packaging Instructions :  
 Passenger and Cargo Aircraft Maximal Net Quantity :  
 Cargo Aircraft only Packaging Instructions : Cargo Aircraft only Maximal Net Quantity :  
 ERG code: Special Provisions for IATA:

## SECTION 15 : REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

- Authorisations and/or restrictions on use:

Authorisations: 9002-93-1

Restrictions on use: 127087-87-0 / 500-315-8

SVHC :127087-87-0 / 500-315-8

64-17-5 / 200-578-6

9002-93-1

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

#### National regulations

### 15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

## SECTION 16 : OTHER INFORMATION

### 16.1 Indication of changes

Date of the previous version:10/10/2023

Modifications:

### 16.2 Other informations

### 16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

### 16.4 Relevant R-, H- and EUH-phrases (number and full text):

| Code | Hazard statments                   |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapour |

according to Regulation (EC) No 1907/2006 (REACH)

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|      |   |
|------|---|
| H302 | Harmful if swallowed  |
| H312 | Harmful in contact with skin  |
| H315 | Causes skin irritation  |
| H318 | Causes serious eye damage.  |
| H319 | Causes serious eye irritation   |
| H332 | Harmful if inhaled  |
| H373 | May cause damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) |
| H400 | Very toxic to aquatic life  |
| H410 | Very toxic to aquatic life with long lasting effects  |
| H411 | Toxic to aquatic life with long lasting effects   |